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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials			1	1
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	65.11	10	10
8	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
9	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Cement Concrete Designer Tiles	Water Absorption	One Test		1	1
		Wet Transverse Strength	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-16-26** **Date: 22-07-21**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	19-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	248.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-16-26** **Date: 17-08-21**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	19-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-09-16-26 **Date: 22-07-21**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 19-07-21

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 19-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-16-26** **Date: 22-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.59	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-16-26** **Date: 21-07-21**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 19-07-21

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 19-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
5	Pan	224	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-16-26** **Date: 21-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Date: 21-07-21

ıb ID	:	CP-2021-09-16-26
oject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
gency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
ıstomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
ıte of Receipt	:	19-07-21
mple Type	:	Fine Aggregate
ference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
ıte of test	:	19-07-21
otal weight taken	:	1000 grams

.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

esult :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2021-09-16-26 Date: 21-07-21

HYSICAL PROPERTIES

no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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TEST RESULTS OF STEEL

ID	:	CP-2021-09-16-26
ject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
ncy	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
tomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
e of Receipt	:	19-07-21
ple Type	:	Sunvik
rence to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
of test:	:	19-07-21

Date: 20-07-21

lo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory

e results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2021-09-16-26** **Date: 28-07-21**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	22-07-21
Identification Mark on Brick	:	MTB
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	22-07-21

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					**8.1**	

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Lab ID : CP-2021-09-16-26 Date: 28-07-21

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-09-16-26 **Date: 10/08/2021**

t Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

y : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

mer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

f Receipt : 05-08-21

mer ID : RCC (For Bull)

e Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 10/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RCC	M20	03/08/2021	10/08/2021	149.53 X 149.08 X 151.63	22292	**8.531**	410.7	18.4	18.5
RCC	M20	03/08/2021	10/08/2021	151.31 X 151.60 X 150.55	22939	**8.990**	421.9	18.4	
RCC	M20	03/08/2021	10/08/2021	150.90 X 149.61 X 151.64	22577	**8.456**	424.3	18.8	

results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
...ject Division
Yelahanka Zone
BBMP, Bangalore - 92

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-6548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2021-09-16-26 **Date: 31/08/2021**
ct Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
cy	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
mer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
of Receipt	:	05-08-21
mer ID	:	RCC (For Bull)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	31/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RCC	M20	03/08/2021	31/08/2021	150.85 X 149.62 X 151.10	22571	8.874	520.5	23.1	22.8
RCC	M20	03/08/2021	31/08/2021	149.26 X 149.45 X 150.65	22308	8.628	496.4	22.3	
RCC	M20	03/08/2021	31/08/2021	151.06 X 149.45 X 151.93	22575	8.716	519.7	23.0	

e results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2021-09-16-26 **Date: 10/08/2021**

ct Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

cy : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

omer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

of Receipt : 05-08-21

omer ID : RCC (For Deer with cub)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 10/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RCC	M20	03/08/2021	10/08/2021	149.35 X 149.23 X 150.93	22288	8.531	403.1	18.1	18.3
RCC	M20	03/08/2021	10/08/2021	150.12 X 150.69 X 151.81	22622	8.990	415.7	18.4	
RCC	M20	03/08/2021	10/08/2021	149.05 X 149.18 X 149.17	22236	8.456	411.5	18.5	

e results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-09-16-26 **Date: 31/08/2021**
ject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
ency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
stomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
te of Receipt	:	05-08-21
stomer ID	:	RCC (For Deer with cub)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	31/08/2021

l. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	03/08/2021	31/08/2021	149.19 X 151.56 X 150.57	22611	**8.874**	523.4	23.1	23.1
2	RCC	M20	03/08/2021	31/08/2021	149.21 X 149.99 X 150.60	22380	**8.628**	514.7	23.0	
3	RCC	M20	03/08/2021	31/08/2021	150.11 X 151.25 X 149.11	22704	**8.716**	527.5	23.2	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
[illegible] Division
Yelahanka Zone
BBMP, Bangalore - 92

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/08/2021

ID	:	CP-2021-09-16-26
ect Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
ncy	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
omer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
of Receipt	:	05-08-21
tomer ID	:	RCC (For Alphabets)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	10/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RCC	M20	03/08/2021	10/08/2021	149.79 X 149.72 X 151.30	22426	**8.531**	407.8	18.2	18.4
RCC	M20	03/08/2021	10/08/2021	150.47 X 150.48 X 149.58	22643	**8.990**	422.5	18.7	
RCC	M20	03/08/2021	10/08/2021	150.14 X 149.15 X 151.44	22394	**8.456**	409.7	18.3	

he results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Job ID : CP-2021-09-16-26 Date: 31/08/2021

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 05-08-21

Customer ID : RCC (For Alphabets)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	03/08/2021	31/08/2021	150.14 X 151.13 X 149.34	22691	**8.874**	543.4	23.9	23.1
2	RCC	M20	03/08/2021	31/08/2021	150.32 X 151.55 X 149.64	22781	**8.628**	503.0	22.1	
3	RCC	M20	03/08/2021	31/08/2021	150.06 X 149.85 X 149.79	22486	**8.716**	522.9	23.3	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
[illegible] Division
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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-09-16-26
		Date: 13/08/2021
ject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
ncy	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
tomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
e of Receipt	:	09-08-21
stomer ID	:	RCC (For Car)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	13/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	13/08/2021	150.39 X 149.91 X 151.25	22544	8.531	415.9	18.4	18.3
2	RCC	M20	06/08/2021	13/08/2021	149.70 X 151.97 X 149.55	22750	8.990	413.1	18.2	
3	RCC	M20	06/08/2021	13/08/2021	151.40 X 149.49 X 150.22	22633	8.456	414.9	18.3	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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b ID	:	CP-2021-09-16-26 **Date: 13/08/2021**
oject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
ency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
stomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
te of Receipt	:	09-08-21
stomer ID	:	RCC (For Car)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	13/08/2021

L. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	13/08/2021	150.39 X 149.91 X 151.25	22544	8.531	415.9	18.4	18.3
2	RCC	M20	06/08/2021	13/08/2021	149.70 X 151.97 X 149.55	22750	8.990	413.1	18.2	
3	RCC	M20	06/08/2021	13/08/2021	151.40 X 149.49 X 150.22	22633	8.456	414.9	18.3	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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